

Day 1 – Monday, March 21

8:00 Registration

8:30 **Welcome & Breakfast**

9:10 **Keynote Speaker: Prof. Yossi Sheffi**, MIT Center for Transportation & Logistics
The Power of Resilience: How the Best Companies Manage the Unexpected

10:10 Break

10:30 **Paper Presentations - Parallel Sessions**

Innovative Cases Studies in Logistics & SCM I E51 – 372

- *Agroindustrias Vida Innovation and collaborative strategies*
Mario Chong; Carlos Rodrich; Daniel Salazar; Julio Burgos
- *Demand Driven MRP for retail and new collection/product launching*
David Poveda
- *Financial Risk Measurement in a Model of Supply of Raw Materials*
Diego Fernando Manotas-Duque; Leonardo Rivera-Cadavid; Stephanía Mosquera-López
- *Improvement in the management of procurement for the local manufacturing processes of Chemical Peru*
Eduardo Buse; Mario Chong; César Cucho; Katty Lozada; Cynthia Ubarnes
- *Towards online traceability in upcoming markets for sustainable seafood*
Titia Sjenitzer

Applied Operations Research I E51 – 376

- *A linear programming model to planning sugar cane crops to supply biofuels plants*
Jimmy Carvajal
- *A two-stage location-routing problem considering compatibility vehicle-product and among products applied in Bogota*
Harol Mauricio Gamez Alban; Christopher Mejía
- *Solving strategic and tactical location and routing problems through an heuristic approach*
Tomás Pavez; Ricardo Giesen; Nikolas Julio; Pablo Mandujano
- *Hybrid heuristic method to solve a two-stage capacitated facility location problem*
Rômulo Rabello; Geraldo Mauri; Glaydston Ribeiro
- *Improvement in the inventories planning in Caynarachi*
Jorge Urbina; Solange Coz; Roberto Sequeiros; Mario Chong

Urban Logistics I E51 – 395

- *Analysis of the effect of traffic mitigation policy “Pico y Placa” on rush hour traffic in Quito utilizing cell phone tracking data*
Michael Calderon; Ximena Cordova-Vallejo; Daniel Merchan
- *High-Resolution Urban Freight Modeling*
Sergio Alex Caballero Caballero; Eva Ponce-Cueto
- *Multipurpose transfer station design for Municipal Solid Waste based on reverse Cross Docking*
Jhan Nuñez; Juan Victoria; Pablo Manyoma
- *Rebalancing Operations in Mexico City’s Bike-sharing System*
Fernanda Sottitl De Aguinaga

12:10 Break

12:30 Lunch. **The MIT Graduate Certificate in Logistics & SCM - Informative Session**

14:00 **Paper Presentations - Parallel Sessions**

Innovative Cases Studies in Logistics & SCM II E51 – 372

- *Business plan for managing the pallet flow on ceramic manufacturing sector*
Martin Tejedo; Fiorella Vinces; David Cuba; Mario Chong
- *EDR systems and technical training integration towards cost and accident reduction on road freight transportation in Brazil*
Luid Pereira de Oliveira; Carlos Marques; Marcelino Aurélio Vieira Da Silva; Felipe Jimenez
- *Out of the Box portfolio - Avon Cosmetics LTDA.*
Ricardo Rodrigues; Adriana Vivian; Daniel Valencia; Juliana Miyabara; Gustavo Preciado; Matias Biragnet; Marcelo Frias
- *Supply chain risk assessment using discrete-event simulation: A case study in Colombia*
Jhonatan Méndez Céspedes; Osman Camilo Soto Cardona; Presen. Felipe Serrano

Applied Operations Research II. E51 – 376

- *A discrete event simulation model for relocation problems of Emergency Medical Service vehicles: a case study*
Alma Karina Rodriguez Quintero; Gloria M. Osorno O.; Pablo A. Maya D.
- *Multi criteria location's model of center of solid waste disposal in Valle del Cauca Colombia*
Carlos Alberto Rojas Trejos; Julián González Velasco
- *Multistage kidney exchange program optimization model using integer programming*
Edna Rocío Pérez Malaver; William Javier Guerrero Rueda; Victoria Eugenia Ospina Becerra
- *Optimization Plan for recyclable solid waste management in Chaclacayo District*
Sandra Honorio; Gaby Sifuentes; Mario Chong

Urban Logistics II E51 – 395

- *An urban freight transport observatory for optimal mobility and distribution*
Yohany Jimenez; Andres Polania
- *Innovative urban freight distribution initiatives in Madrid and Barcelona*
Eva Ponce-Cueto
- *One size does not necessarily fit all: A comparison of logistics profiles and potential policy solutions in different congested urban zones in Quito Ecuador*
Carlos Suárez-Núñez; Daniel Merchán
- *Risk Management in Urban Transport Systems for Logistics Planning in Brasilia Brazil*
Erich Wolff; Manoel Messias Ribeiro Dos Santos Filho

15:40 Break

16:00 **Paper Presentations - Parallel Sessions**

Innovative Cases Studies in Logistics & SCM III E51 – 372

- *An MRO inventory management system for an oil and gas company*
Carlos Rodrigo Ruiz Cruz; Jose Fernando Pacheco Rodriguez
- *Characterization of urban logistics in an HORECA intensive area Case study: “The T Zone” in Bogotá Colombia*
Jorge Chicaiza; David Hidalgo
- *Simple and efficient tool for reduction in total inventory for Mexican retail industries*
Miguel A. Moreno; Samuel Nucamendi-Guillén
- *The effect of road gradient on vehicle routing decisions. The case of hilly topography cities*
Victor Fabio Suarez-Chilma; William Ariel Sarache Castro; Yasel Costa-Salas

Urban Logistics III E51 – 395

- *A Comprehensive Disaggregated Urban Freight Model for Policy Evaluation*
Yinjin Lee; Edgar Blanco; Christopher Zegras; Moshe Ben-Akiva
- *Evaluation of best practices introduction for the managerial improvement in the urban freight transport*
Cintia Oliveira Mestre; Marcio De Almeida D'Agosto; Mauricio De Figueiredo Preger; Daniel Neves Schmitz Gonçalves; Fabio Dos Santos Gonçalves; Fabiana Do Couto Assumpcao; Lino Guimarães Marujo
- *Organic chocolate export to the United States*
Gonzalo Mori; Mario Chong; Luis Lavaggi; Miguel Rozas
- *The São Paulo Off-Hour Delivery Pilot: Impacts for City Logistics*
Hugo Yoshizaki; Claudio Cunha; Joice Giacon; Flavio Almeida; Iara Kako; Patricia Laranjeiro; Celso Hino

Student Paper Competition E51 – 376

- *A multi-criteria approach for item classification in an inventory system applied to an emergency medical services*
Viviana Hernandez (Carvajal)
- *Optimization in urban transport: An intermodal simulation with emphasis on energy efficiency*
Shadia S. A. Bortolazzo; Eugênio Cavallazzi; Amir Mattar Valente
- *Re-designing the water-distribution system in low-income areas: A social-oriented supply chain model for Pamplona Alta*
Mauricio Rada Orellana; María De Fátima León; María Fernanda Fierro
- *Supply Chain Decision Making: A System Dynamics Approach*
Juan Sebastián López Lasprilla; Andrés Felipe Cardona Triana
- *Urban Logistics Solutions in Latin America: A Study of a Modern Commercially Dense Neighborhood in the City of Quito-Ecuador*
Omar Esteban Aguirre; José Muñoz
- *Urban logistics: Generating solutions to create a better environment for commercial logistic activities. A case study of the Historic Center of Quito*
Sol María López Castelo; Juan Martín Sosa Valdez

17:40 **Reception** – Samberg Conference Center, Building E52-7th Floor, Salon M

Day 2 – Tuesday, March 22

8:00 Breakfast

8:30 **Paper Presentations - Parallel Sessions**

Sustainability I E51 – 372

- *Eco-driving by replicating best driving practices*
José Ignacio Huertas; Jenny Díaz R.; Daniel Guillermo Cordero M.; Lina M. Tabares; Pablo A. Marin L
- *Car-free centres as a support method to urban planning: experiences from the perspective of Latin America's countries*
Shadia Silveira Assaf Bortolazzo; Melina Fujiwara; Joao Carlos Souza; Amir Mattar Valente
- *Returns Management Process for food recovery in Colombian retail sector*
Daniela Florez; Vivian Rangel; Nicolas Giraldo
- *Using a Dynamic Systems Perspective to dimensioning an electric bike sharing system: encouraging sustainable mobility in Universities*
Karla Gamez; Jenny Diaz; Eleazar Puente

General Topics on Logistics & SCM I. E51 – 376

- *Location's model of zones modal interchange logistics corridor Bogotá - Buenaventura in Colombia*
Julián González Velasco; Carlos Alberto Rojas Trejos; Carlos Julio Vidal Holguín;
Juan Carlos Metaute
- *Optimization under uncertainty for the retail location problem*
Cristian David Ramirez Pico; Michel De Lara; William Javier Guerrero Rueda
- *Stochastic multi-objective optimization approach to redesign the sustainable reverse supply chain network for plastic recycling*
Michael Feito Cespon; William A Sarache; Frank Piedra Jimenez; Roberto Cespon Castro
- *Valuation of a distribution center of an auxiliary rail freight terminal: Using real options with fuzzy sets and binomial trees*
Fernando Cruz-Aranda; Francisco Ortiz-Arango; Agustin I. Cabrera-Llanos

10:10 Break

10:30 **Paper Presentations - Parallel Sessions**

Sustainability II E51 – 376

- *Mixed integer formulations for the green location routing Problem*
David Cortés; William Guerrero; Jairo Montoya-Torres
- *Urban Rail Transport in Brazil: barriers and trends*
Melina Fujiwara; Shadia S. Assaf Bortolazzo; Joao Carlos Souza
- *Fuel consumption in freight long distance in Colombia*
Jenny Díaz-Ramírez; Nicolas Giraldo P; Jose Ignacio Huertas Cardozo;
Christopher Mejía Argueta; Vivian Rangel
- *Optimization Model for Efficiency Energy of Road Freight Transport*
Jorge Luis Chicaiza Vaca; Jose Gabriel Zato Recellado

General Topics on Logistics & SCM II E51 – 376

- *The Best Sales and Operation Model for Amcor Rigid Plastic Del Perú S.A.*
Claudia Fiorella Fabian Vargas; Marko Polo Sanchez; Mario Orna Castro
- *An agent-based simulation of intermediation in food supply chains: A case study*
Gonzalo Mejía; César García-Díaz
- *Realities of land transport in Colombia: Context and Lessons from the point of view of an emerging economy*
David Hidalgo; Wilman Rivera; Maria Carolina Poveda; Juan Rey
- *The inventory-routing problem with hard time windows*
Eliseo Perez; William Guerrero

12:00 **Keynote Speaker: Prof. César Hidalgo**, MIT Media Lab
Why Information Grows

13:00 Lunch

14:00 **Paper Presentations - Parallel Sessions**

General Topics on Logistics & SCM III E51 – 376

- *A methodology for VSP with heterogeneous fleet*
Marcela María Morales Chávez; Mauricio Granada; William Ariel Sarache Castro; Yasel Costa
- *A proposed set of criteria for supply chain strategy evaluation*
Roberto Perez-Franco; Chris Caplice; Yossi Sheffi
- *An empirical analysis of the robustness of the parameters of the Inventory Control Policy (ROPQ) using simulation*
Carlos Castro-Zuluaga; Jaime Castro-Urrego
- *Supply Chain Optimization for a Developing Furniture Manufacturer*
Magdalena Liñero; Tanya De Andres; Alberto Canales

International Trade & Logistics E51 – 372

- *Estimating the impact of trade facilitation in regional supply chains: A case study in Colombia*
Carlos Paternina-Arboleda; Tatiana Alfaro-Diaz
- *Impact on fuel consumption of the use of fuel additives on heavy duty trucks and buses under different driving conditions*
Martin Tanco; Matias Aresti; Julio Villalobos; Diego Moratorio; Daniel Jurburg;
Agustina Aguirre; Matias Escuder
- *Improved process for delivery in empty containers refrigerated in LICSA*
Mario Chong; Erick Purizaga; Néstor Rodríguez; Angélica Poquioma
- *Value-Added Logistics-Services Potential after Panama Canal Expansion*
Zoila Yadira Guerra de Castillo; Juan Marcos Castillo; Pablo Alcides Arosemena;
Ada Carolina Kelso

15:40 Break

16:00 **Keynote Speaker: Prof. Carolina Osorio**, MIT Department of Civil & Environmental Engineering
Large-scale urban transportation system design and operations in the era of connected, autonomous and real-time responsive vehicles and travelers.

17:00 **Student Competition Award Ceremony & Adjourn**